

Crumia latifolia (Kindb. in Mac.) Schof.

Status: State Working List

Rank: G3S1

General Description: *Crumia latifolia* forms green to reddish-brown upright tufts that are often encrusted with calcium carbonate deposits. Leaves are 3-5 mm long and are broadly spatulate to lingulate, marginal cells are thickened, forming an orange border, upper median cells are hexagonal, thin-walled, 12-26 μm wide and obscured with low papillae. The costa is stout, prominent at the back and ends in a short mucro. Sporophytes are rarely produced. When sporophytes occur they are erect cylindrical and on a seta about 15 mm tall, reddish-brown, about 3 mm long and 0.7 mm wide.

Identification Tips: *Crumia* can be separated from *Tortula*, a similar species, by the row of swollen, orange colored marginal cells on the leaves.

Range: This species is known from Coastal British Columbia to southern California, eastward to Colorado, Montana, Arizona with disjunct populations in North Dakota. In Washington it is only known from Clallam and San Juan counties.

Habitat: *Crumia latifolia* occurs on seepy shaded calcareous outcrops. Rock like formations called "liths" are often formed by the calcium carbonate buildup on the surface of the moss.

State Status Comments: This species is known from only two sites in Washington. Of the two known sites, one is located in a fairly "safe" location while the other is along a road bank below an active quarry.

Inventory Needs: Because this is a species found on calcareous substratum it would be of interest to survey other limestone deposits throughout the state to potentially expand the known range.

Threats and Management Concerns: Changes in hydrology that would alter calcareous seeps and mining for limestone present the primary threats for this species.

References:

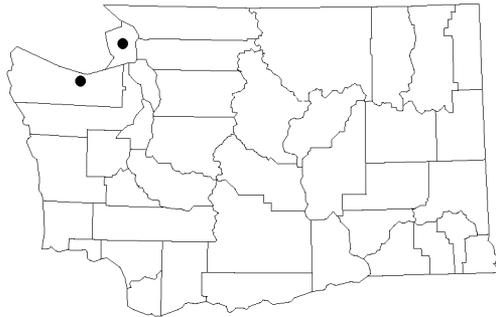
Lawton, E., 1971. *Moss Flora of the Pacific Northwest*. The Hattori Botanical Laboratory. Nichinan, Miyazaki, Japan. 362 pp.

Schofield, W.B. 1966. *Crumia*, A New Genus of the Pottiaceae Endemic To Western North America. *Canadian Journal of Botany*. 44: 609-614.

Crumia latifolia (Kindb. in Mac.) Schof.



Known distribution of *Crumia latifolia* in Washington



- Current (1980+)
- Historic (older than 1980)

2003 Produced as part of a cooperative project between the Washington Department of Natural Resources, Washington Natural Heritage Program, and the U.S.D.A., Forest Service, Olympic National Forest. The author of these fact sheets is Judy Harpel, Region 6, USFS. Persons needing this information in an alternate format may call (360) 902-1340 or TTY (360) 902-1125.